

Overview of materials for Liquid Crystal Polymer (LCP), Unfilled

Category : Polymer , Thermoplastic , Liquid Crystal Polymer (LCP) , Liquid Crystal Polymer (LCP), Unfilled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Liquid Crystal Polymer (LCP), Unfilled". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Overview-of-materials-for-Liquid-Crystal-Polymer-LCP-Unfilled.php

Physical Properties	Metric	English	Comments
Density	1.38 - 1.77 g/cc	0.0499 - 0.0639 lb/in ³	Average value: 1.45 g/cc Grade Count:7
Moisture Absorption at Equilibrium	0.0200 - 0.0400 %	0.0200 - 0.0400 %	Average value: 0.0350 % Grade Count:4
Moisture Vapor Transmission	0.00606 - 0.354 cc-mm/m ² -24hr-atm	0.0154 - 0.900 cc-mil/100 in ² -24hr-atm	Average value: 0.0960 cc-mm/m ² -24hr-atm Grade Count:4
Oxygen Transmission	0.0154 - 0.0472 cc-mm/m ² -24hr-atm	0.0390 - 0.120 cc-mil/100 in ² -24hr-atm	Average value: 0.0296 cc-mm/m ² -24hr-atm Grade Count:4
Melt Flow	9.00 - 18.0 g/10 min	9.00 - 18.0 g/10 min	Average value: 13.7 g/10 min Grade Count:3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	128 - 182 MPa	18500 - 26400 psi	Average value: 151 MPa Grade Count:5
Elongation at Break	0.600 - 3.40 %	0.600 - 3.40 %	Average value: 2.02 % Grade Count:5
Modulus of Elasticity	10.6 - 17.9 GPa	1540 - 2600 ksi	Average value: 13.3 GPa Grade Count:5
Flexural Yield Strength	75.8 - 178 MPa	11000 - 25800 psi	Average value: 146 MPa Grade Count:5
Flexural Modulus	9.10 - 12.0 GPa	1320 - 1740 ksi	Average value: 10.2 GPa Grade Count:6
Izod Impact, Notched (ISO)	14.0 - 95.0 kJ/m ²	6.66 - 45.2 ft-lb/in ²	Average value: 68.0 kJ/m ² Grade Count:3

Thermal Properties	Metric	English	Comments
Melting Point	212 - 280 °C	414 - 536 °F	Average value: 257 °C Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	105 - 260 °C	221 - 500 °F	Average value: 187 °C Grade Count:6

Processing Properties	Metric	English	Comments
Die Temperature	225 - 295 °C	437 - 563 °F	Average value: 265 °C Grade Count:3
Melt Temperature	185 - 366 °C	365 - 690 °F	Average value: 258 °C Grade Count:7
Mold Temperature	65.6 - 121 °C	150 - 250 °F	Average value: 100 °C Grade Count:3

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